# INDUCTIVE AMPLIFIER WITH A FEED FORWARD BOOST

ABSTRACT

An inductive amplifier having a feed forward boost is provided, thereby improving the gain of the inductive amplifier at frequencies greater than 1 GigaHertz. The inductive amplifier includes a feed-forward boost circuit coupled to intermediate nodes of an inductive amplifier circuit, whereby the feed-forward boost circuit generates boost currents that are added to the currents of the inductive amplifier circuit. In one embodiment, the feed-forward boost circuit includes a boost current supply, a first boost transistor coupled between the current supply and a first intermediate node of the inductive amplifier circuit, and a second boost transistor coupled between the current supply and a second intermediate node of the inductive amplifier circuit. In one embodiment, the first and second boost transistors and the inductive amplifier circuit are controlled by the same differential input signals.